DESCRIPTION AMENDMENTS

Rewrite amended paragraph [0041] to read as follows:

FIG. 14 illustrates feedback equalizer unit 94 of FIG. 13 in more detail. Producing the offset signal F signal input to summing amplifier 88 as functions of the G1, G2 and Z signals, feedback equalizer unit 94 suitably includes a latch 95, a pair of amplifiers 96 and 97 having gains controlled by filter control signals G1 and G2, and a summing amplifier 98. First data signal Z drives amplifier 97. The output of latch 95, representing the state of first data signal Z on each trailing edge of the CLK signal, provides an amplifier 96 input. Summing amplifier 98 generates offset signal F as a sum of outputs of amplifiers 96 and 97. Adaptation control circuit 92 of FIG. 13 suitably implements, for example, the following adaptation algorithm:

$$\begin{aligned} \mathbf{G2_{n+2}} &= \mathbf{G2_{n}} + \Delta_{+} \text{ when } \mathbf{S_{n-1}} = \mathbf{Z_{n-3}}, \text{ else } \mathbf{G2_{n+1}} + 2 = \mathbf{G2_{n}} - \Delta_{-} \\ &= \mathbf{G2_{n+1}} + \Delta_{+} \text{ when } \mathbf{S_{n-1}} = \mathbf{Z_{n-3}}, \text{ else } \mathbf{G2_{n+1}} + 2 = \mathbf{G2_{n}} - \Delta_{-} \\ \end{aligned}$$
 where

G1_n is a magnitude of the first filter control signal during an nth sampling clock signal cycle,

 $G1_{n+1}$ is a magnitude of the first filter control signal during an $(n+1)^{th}$ sampling clock signal cycle,

 $G2_n$ is a magnitude of the second filter control signal during the n^{th} sampling clock signal cycle,

G2_{n+1} is a magnitude of the second filter control signal during the (n+1)th sampling clock signal cycle,

 Z_{n-2} is a state of the first data signal following an $(n-2)^{th}$ trailing edge of the sampling clock signal

 $Z_{\text{n-3}}$ is a state of the first data signal following an $(\text{n-3})^{\text{th}}$ trailing edge of the sampling clock signal,

 S_{n-1} is a state of the second data signal following an $(n-1)^{th}$ trailing edge of the sampling clock signal, and

 Δ_{+} , and Δ_{-} are constants.

Adaptation control circuit 92 increases G1 when S_{n-1} is of the same sign as Z_{n-2} because this indicates that signal X is under-compensated. Otherwise, adaptation control circuit 92 considers signal X to be over-compensated and decreases G1. Similarly, adaptation control circuit 92 increases G2 when S_{n-1} is of the same sign as Z_{n-3} because this indicates that signal X is under-compensated. Otherwise, adaptation control circuit 92 considers signal X to be over-compensated and decreases G2.